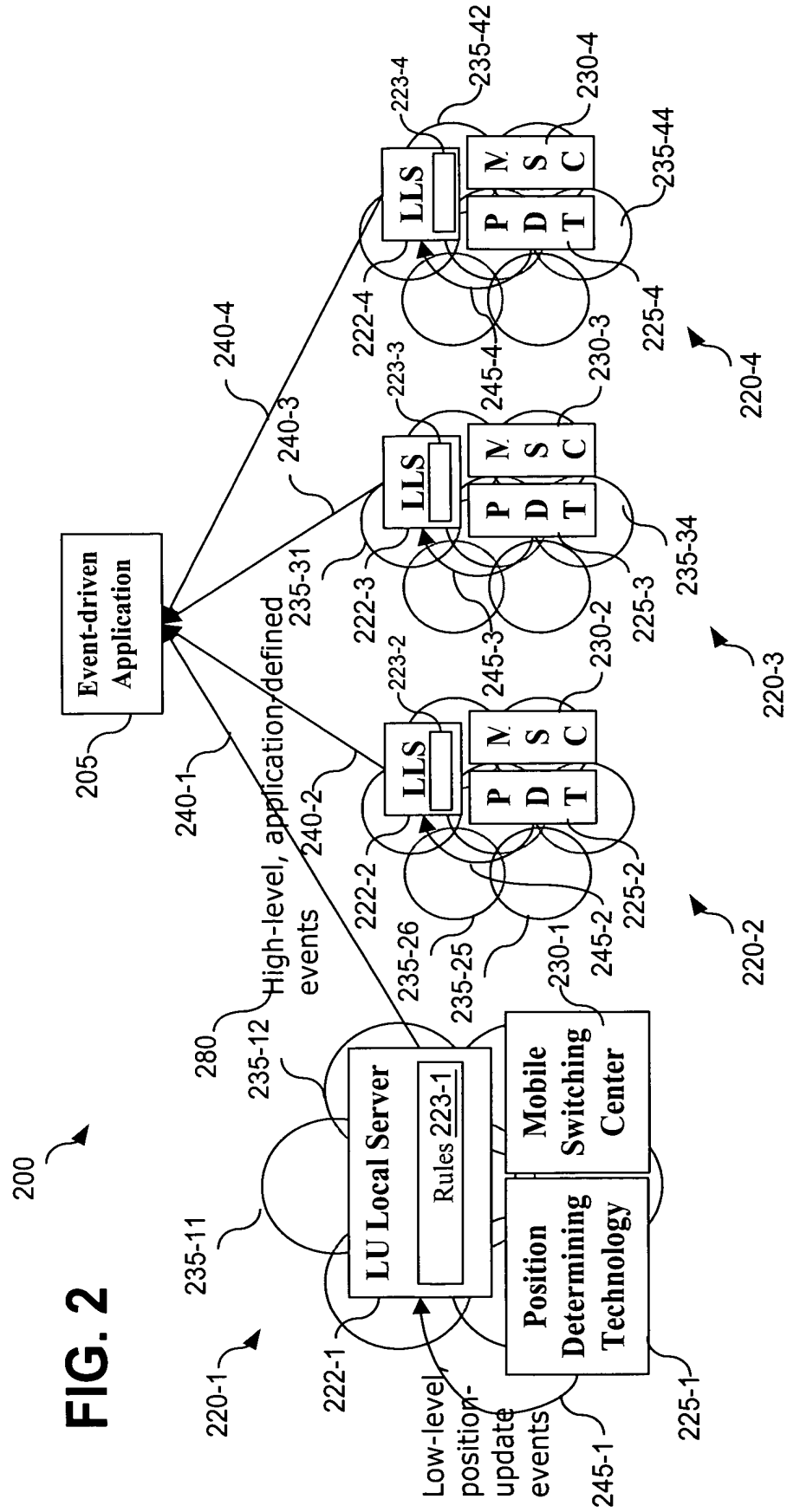


FIG. 2



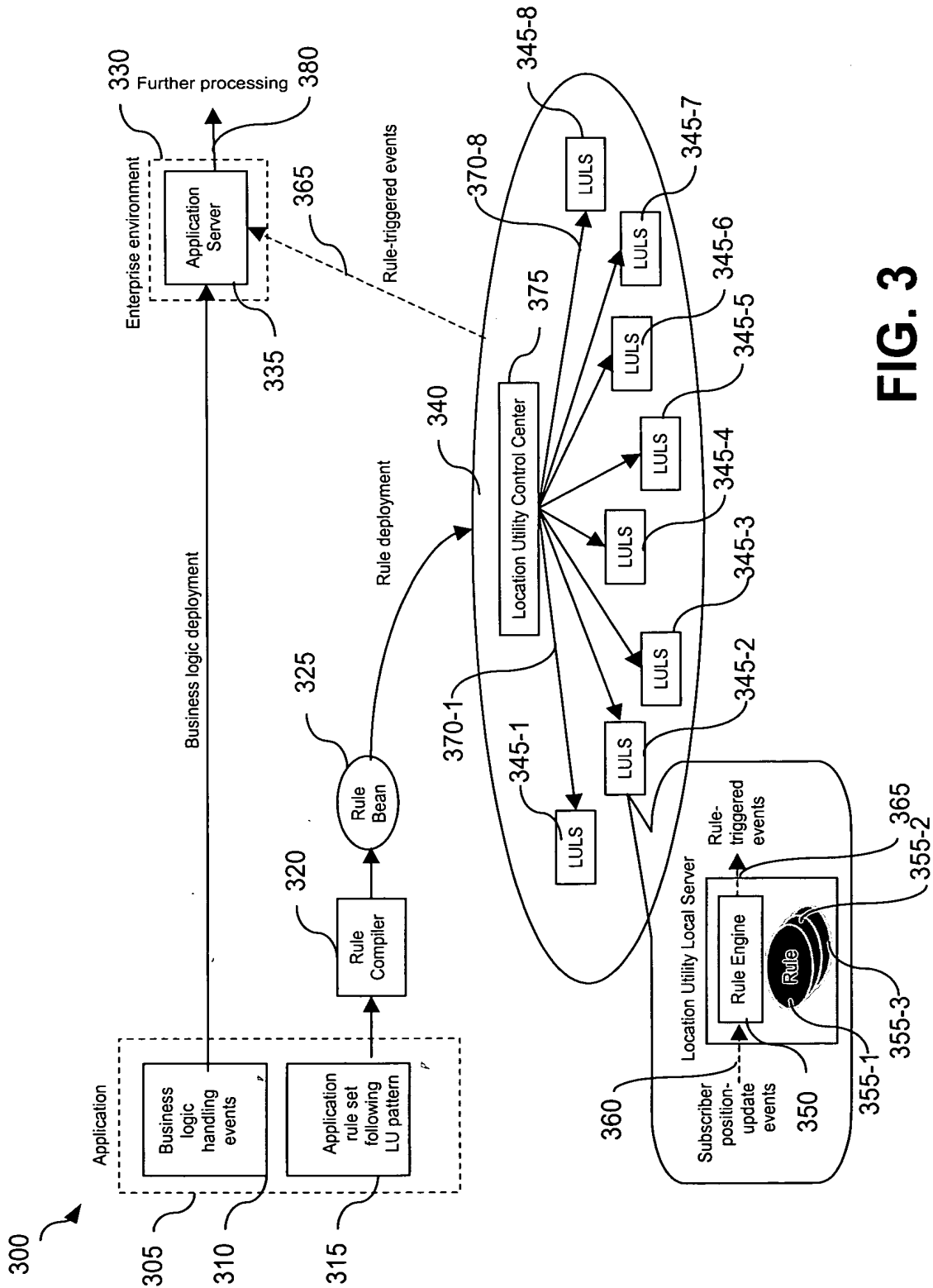


FIG. 3

```

spatial_rule → rule_expr
rule_expr → rule_expr OR rule_expr
           | rule_expr AND rule_expr
           | NOT rule_expr
           | rule_func

rule_func → containedIn {polygon | polygonClass+}
           | withinDistanceOf entity distance
           | hasIdentity {subscriber | subscriberClass+}
           | scalar_func {< | <= | == | != | >= | >} scalar_func
           | timer period {subscriber | subscriberClass+}

polygon → representation of a polygon
subscriber → string literal
entity → subscriber | subscriberClass+ | point | pointClass+
distance → scalar_func
point → representation of a point
scalar_func → SPRField component
             | distanceFrom {subscriber | point}
             | distanceTraveledSince {point | time} {route | path}
             | constant numeric literal
             | reference resourceID

component → X | Y | Z | SPEED | BEARING | TIME | ...
resourceID → string literal

```

FIG. 4

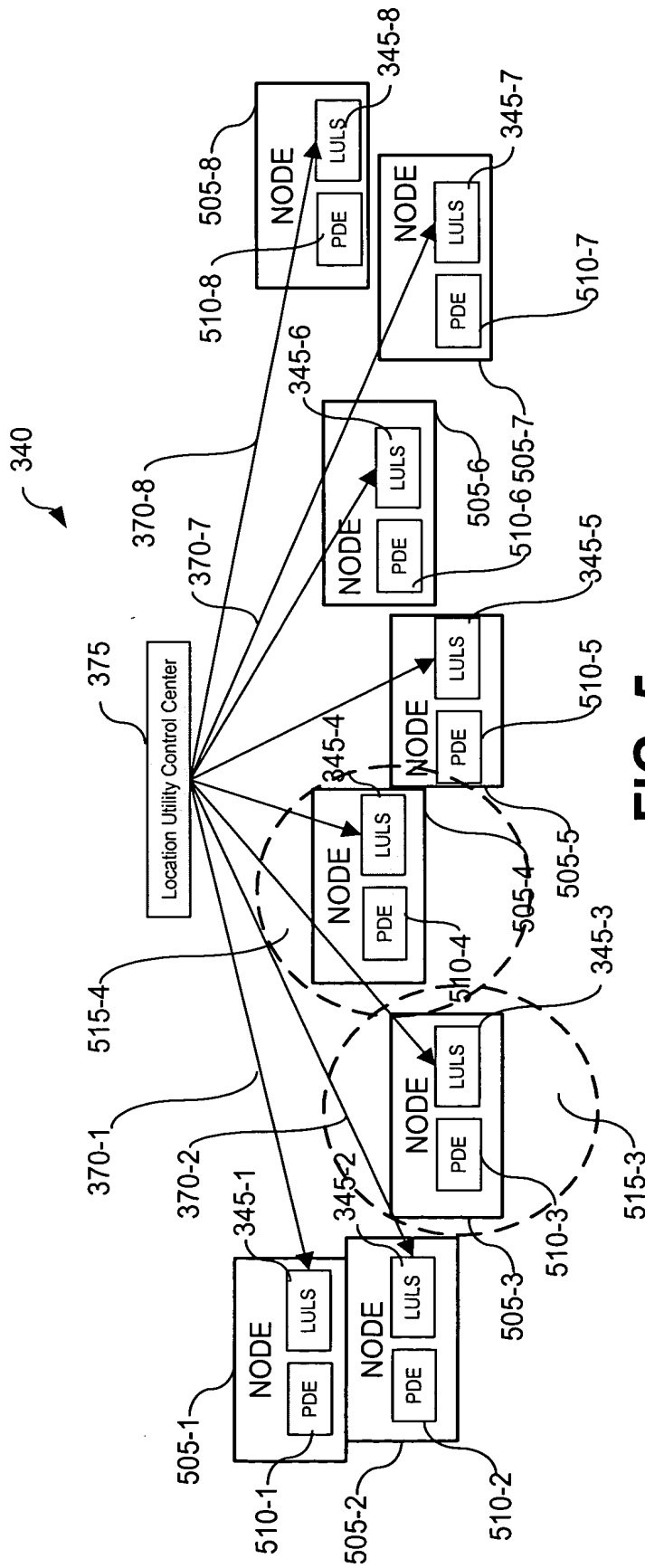


FIG. 5

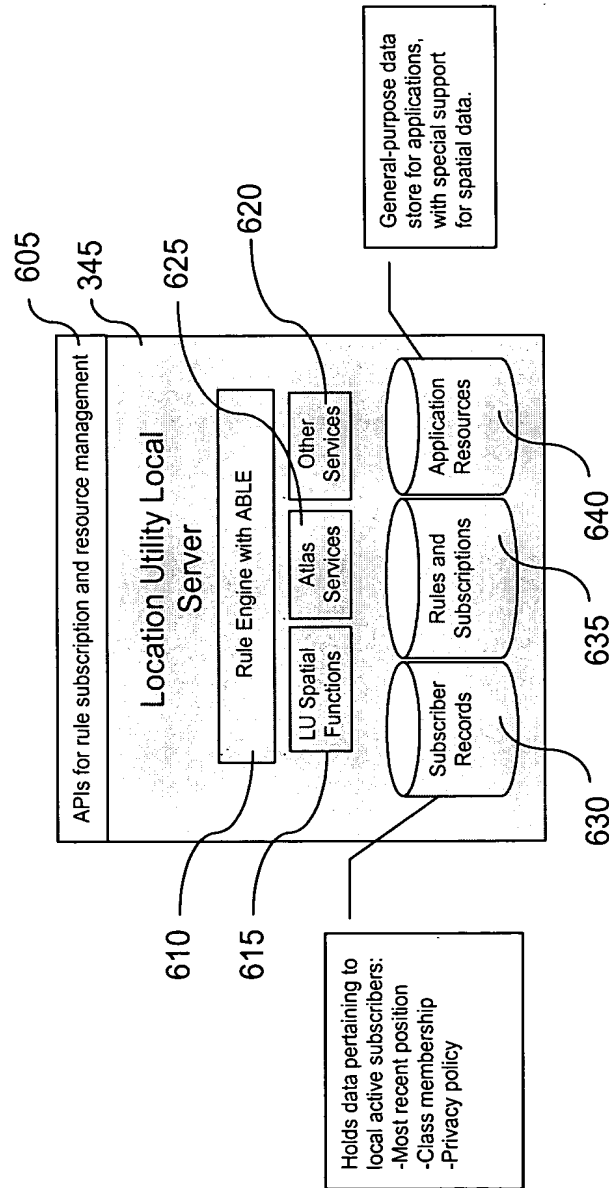


FIG. 6

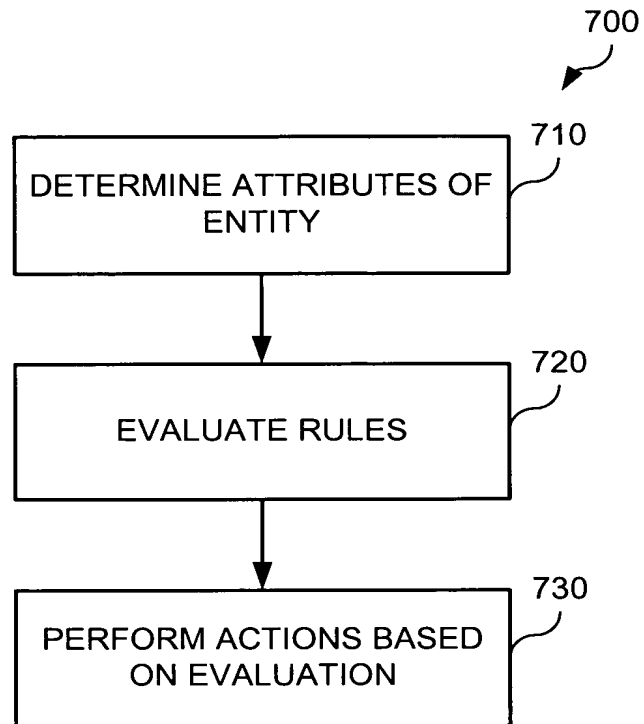


FIG. 7

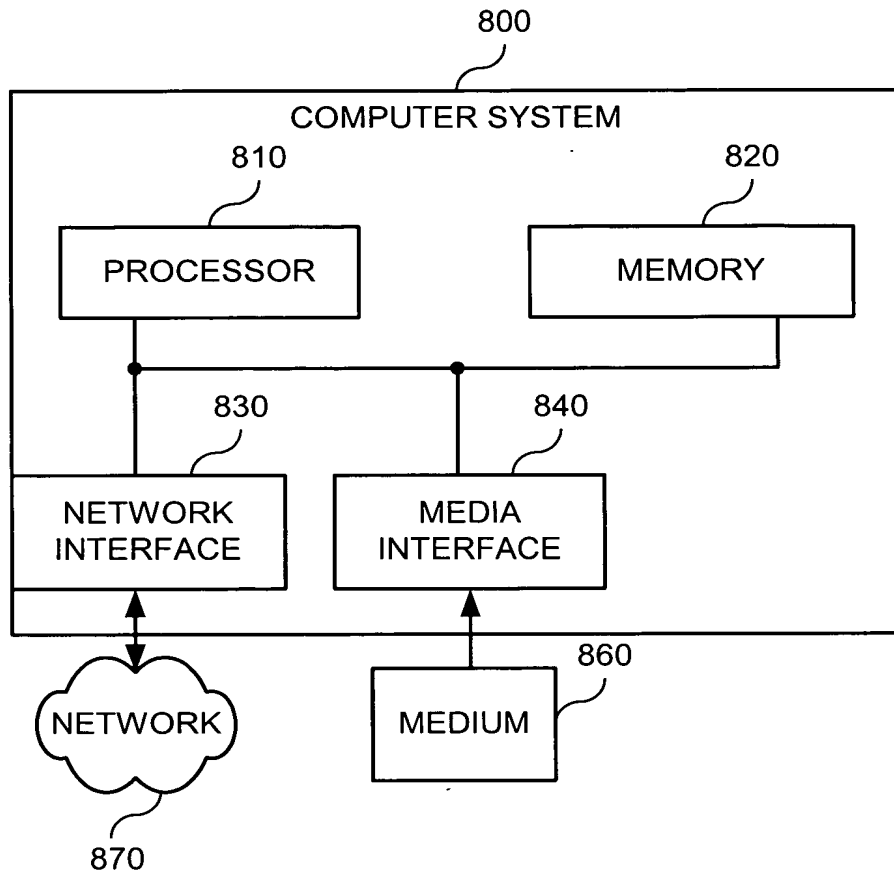


FIG.8